

## DOP-GE+-047

### 1. Unique identification code of the product-type:

Multi Wall Metal System Chimney  
EN 1856-1:2009

### 2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

#### DINAK GE+

GE30+		
1.0 Model 1.4404 / 316L	Ø80-300	T600 H1 D V2 L50040 O40
1.0 Model 1.4404 / 316L	Ø350-450	T600 H1 D V2 L50040 O60
1.0 Model 1.4404 / 316L	Ø500-600	T600 H1 D V2 L50040 O80
1.1 Model 1.4404 / 316L	Ø80-300	T600 N1 D V2 L50040 G50
1.1 Model 1.4404 / 316L	Ø350-450	T600 N1 D V2 L50040 G75
1.1 Model 1.4404 / 316L	Ø500-600	T600 N1 D V2 L50040 G100
2.0 Model 1.4521 / 444	Ø80-300	T600 H1 D V2 L99040 O40
2.0 Model 1.4521 / 444	Ø350-450	T600 H1 D V2 L99040 O60
2.0 Model 1.4521 / 444	Ø500-600	T600 H1 D V2 L99040 O80
2.1 Model 1.4521 / 444	Ø80-300	T600 N1 D V2 L99040 G50
2.1 Model 1.4521 / 444	Ø350-450	T600 N1 D V2 L99040 G75
2.1 Model 1.4521 / 444	Ø500-600	T600 N1 D V2 L99040 G100
3.0 Model 1.4301 / 304	Ø80-300	T600 H1 D Vm L20040 O40
3.0 Model 1.4301 / 304	Ø350-450	T600 H1 D Vm L20040 O60
3.0 Model 1.4301 / 304	Ø500-600	T600 H1 D Vm L20040 O80
3.1 Model 1.4301 / 304	Ø80-300	T600 N1 D Vm L20040 G50
3.1 Model 1.4301 / 304	Ø350-450	T600 N1 D Vm L20040 G75
3.1 Model 1.4301 / 304	Ø500-600	T600 N1 D Vm L20040 G100
GE50+		
1.0 Model 1.4404 / 316L	Ø80-300	T600 H1 D V2 L50040 O40
1.0 Model 1.4404 / 316L	Ø350-450	T600 H1 D V2 L50040 O60
1.0 Model 1.4404 / 316L	Ø500-600	T600 H1 D V2 L50040 O80
1.1 Model 1.4404 / 316L	Ø80-300	T600 N1 D V2 L50040 G50
1.1 Model 1.4404 / 316L	Ø350-450	T600 N1 D V2 L50040 G75
1.1 Model 1.4404 / 316L	Ø500-600	T600 N1 D V2 L50040 G100
2.0 Model 1.4521 / 444	Ø80-300	T600 H1 D V2 L99040 O40
2.0 Model 1.4521 / 444	Ø350-450	T600 H1 D V2 L99040 O60
2.0 Model 1.4521 / 444	Ø500-600	T600 H1 D V2 L99040 O80
2.1 Model 1.4521 / 444	Ø80-300	T600 N1 D V2 L99040 G50
2.1 Model 1.4521 / 444	Ø350-450	T600 N1 D V2 L99040 G75
2.1 Model 1.4521 / 444	Ø500-600	T600 N1 D V2 L99040 G100
3.0 Model 1.4301 / 304	Ø80-300	T600 H1 D Vm L20040 O40
3.0 Model 1.4301 / 304	Ø350-450	T600 H1 D Vm L20040 O60
3.0 Model 1.4301 / 304	Ø500-600	T600 H1 D Vm L20040 O80
3.1 Model 1.4301 / 304	Ø80-300	T600 N1 D Vm L20040 G50
3.1 Model 1.4301 / 304	Ø350-450	T600 N1 D Vm L20040 G75
3.1 Model 1.4301 / 304	Ø500-600	T600 N1 D Vm L20040 G100
GE100+		
1.0 Model 1.4404 / 316L	Ø80-300	T600 H1 D V2 L50040 O30
1.0 Model 1.4404 / 316L	Ø350-450	T600 H1 D V2 L50040 O45
1.0 Model 1.4404 / 316L	Ø500-600	T600 H1 D V2 L50040 O60
1.1 Model 1.4404 / 316L	Ø80-300	T600 N1 D V2 L50040 G50
1.1 Model 1.4404 / 316L	Ø350-450	T600 N1 D V2 L50040 G75
1.1 Model 1.4404 / 316L	Ø500-600	T600 N1 D V2 L50040 G100
2.0 Model 1.4521 / 444	Ø80-300	T600 H1 D V2 L99040 O30
2.0 Model 1.4521 / 444	Ø350-450	T600 H1 D V2 L99040 O45
2.0 Model 1.4521 / 444	Ø500-600	T600 H1 D V2 L99040 O60
2.1 Model 1.4521 / 444	Ø80-300	T600 N1 D V2 L99040 G50

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2.1 Model 1.4521 / 444	Ø350-450	T600 N1 D V2 L99040 G75
2.1 Model 1.4521 / 444	Ø500-600	T600 N1 D V2 L99040 G100
3.0 Model 1.4301 / 304	Ø80-300	T600 H1 D Vm L20040 O30
3.0 Model 1.4301 / 304	Ø350-450	T600 H1 D Vm L20040 O45
3.0 Model 1.4301 / 304	Ø500-600	T600 H1 D Vm L20040 O60
3.1 Model 1.4301 / 304	Ø80-300	T600 N1 D Vm L20040 G50
3.1 Model 1.4301 / 304	Ø350-450	T600 N1 D Vm L20040 G75
3.1 Model 1.4301 / 304	Ø500-600	T600 N1 D Vm L20040 G100

**3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**

Convey the products of combustion from heating appliances to the outside atmosphere

**4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):**

DINAK S.A.  
Camiño do Laranxo, 19  
36216, Vigo (SPAIN)  
dinak@dinak.com  
tlf: +34 986 452 526

**5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):**

Not applicable

**6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:**

System 2+  
System 4 (for terminals)

**7. Notified factory production control certification body TÜV SÜD Industrie Service GmbH, No.0036, performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.**

**8. Declared performance**

Essential Characteristics	Performance	Harmonized technical specification
Compressive strength Chimney Sections, fittings and supports	GE30+: Up to 19 m (See annex) GE50+: Up to 14 m (See annex) GE100+: Up to 5 m (See annex)	EN 1856-1:2009
Resistance to fire	GE30+/GE50+ Models 1.0, 2.0 and 3.0: Ø80-300: T600 – O40 Ø350-450: T600 – O60 Ø500-600: T600 – O80 Models 1.1, 2.1 and 3.1: Ø80-300: T600 – G50 Ø350-450: T600 – G75 Ø500-600: T600 – G100  GE100+ Models 1.0, 2.0 and 3.0: Ø80-300: T600 – O30 Ø350-450: T600 – O45 Ø500-600: T600 – O60 Models 1.1, 2.1 and 3.1:	EN 1856-1:2009

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	<p>Ø80-300: T600 – G50          Ø350-450: T600 – G75          Ø500-600: T600 – G100</p>	
<b>Gas tightness/leakage</b>	<p>Models 1.0, 2.0 and 3.0: H1          Models 1.1, 2.1 and 3.1: N1</p>	EN 1856-1:2009
<b>Flow resistance of chimney sections, fittings and terminals</b>	According to EN 13384-1	EN 1856-1:2009
<b>Thermal resistance</b>	<p>GE30+: Ø80-600: 0.301 - 0.385 m<sup>2</sup>K/W tested at 200°C          GE50+: Ø80-600: 0.351 - 0.522 m<sup>2</sup>K/W tested at 200°C          GE100+: Ø80-600: 0.543 – 0.967 m<sup>2</sup>K/W tested at 200°C</p>	EN 1856-1:2009
<b>Thermal shock resistance</b> Soot fire resistance	<p>Models 1.0, 2.0 and 3.0: No          Models 1.1, 2.1 and 3.1: Yes</p>	EN 1856-1:2009
Thermal performance under normal operating conditions	T600	
<b>Flexural tensile strength (only for means of connection for chimney sections and fittings)</b>	0 m (to keep the outer wall compensator properties) ( see annex)	EN 1856-1:2009
<b>Non vertical installation</b>	Maximum offset between supports: Up to 3 m at 90° (see annex)	EN 1856-1:2009
<b>Components subject to wind load</b>	<p>Maximum free standing height: Up to 1,5 m above last support (see annex)          Maximum spacing between lateral supports: Up to 3 m (see annex)</p>	EN 1856-1:2009
<b>Durability</b> Water and vapor diffusion resistance	Yes	EN 1856-1:2009
Condensate penetration resistance	No	
Against corrosion	<p>Models 1.0, 1.1, 2.0 and 2.1: V2          Models 3.0 and 3.1: Vm</p>	
<b>Freeze thaw resistance</b>	Yes	EN 1856-1:2009

**9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.**

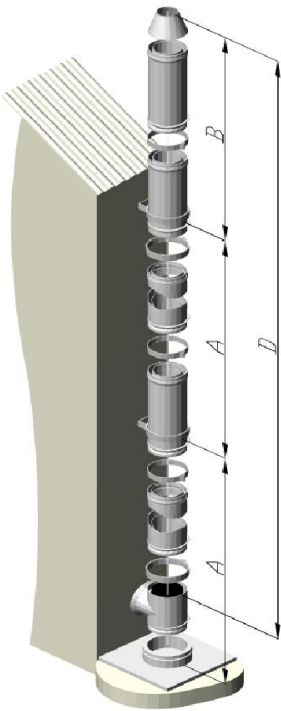
**This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**

**Signed for and on behalf of the manufacturer by:**

Íñigo A. Canoa (General Manager)

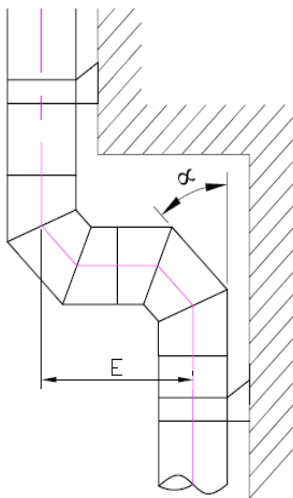
Vigo, 3<sup>rd</sup> November 2020

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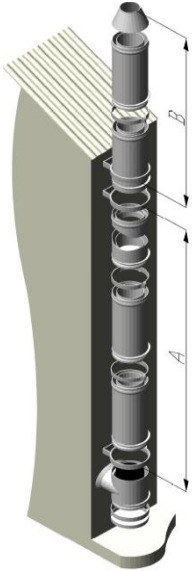
		COMPRESSION STRENGTH*			TENSILE STRENGTH		
		Height – Size D (m)			Height – Size D (m)		
Outer material		1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model		GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
ND (mm)	80	19	14	6	0	0	0
	100	16	12	5	0	0	0
	125	14	10	5	0	0	0
	150	12	9	4	0	0	0
	175	11	8	5	0	0	0
	200	9	7	5	0	0	0
	250	8	6	4	0	0	0
	300	7	7	3	0	0	0
	350	7	6	3	0	0	0
	400	6	5	3	0	0	0
	450	5	4	2	0	0	0
	500	5	4	4	0	0	0
	550	4	4	4	0	0	0
600	4	6	3	0	0	0	

\* In case a higher resistance is required, check with Dinak the possibility of installing a reinforced Tee



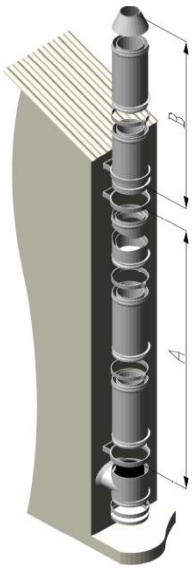
		NON VERTICAL INSTALLATION					
		MAX. DEFLECTION $\alpha$ (°)			MAX. LENGTH OF THE SLOPE – Size E (m)		
Outer material		1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model		GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
ND (mm)	80	90	90	90	3	3	3
	100	90	90	90	3	3	3
	125	90	90	90	3	3	3
	150	90	90	90	3	3	3
	175	90	90	90	3	3	3
	200	90	90	90	3	3	3
	250	90	90	90	3	3	3
	300	90	90	90	3	3	3
	350	90	90	90	3	3	3
	400	90	90	90	3	3	3
	450	90	90	90	3	3	3
	500	90	90	90	3	3	1
	550	90	90	90	3	3	1
600	90	90	90	3	1	1	

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WIND LOAD RESISTANCE						
CONFIGURATION 1: WALL SUPPORTS 080 / FLAT WALL SUPPORT 086						
Max number of straight elements between supports (Size A)				Max. Length from last support. (m) (Size B)		
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model	GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
80	3	3	3	1,5	1,5	1
100	3	3	3	1,5	1,5	1
125	3	3	3	1,5	1,5	1
150	3	3	3	1,5	1,5	1
175	3	3	3	1,5	1,5	1
200	3	3	3	1,5	1,5	1
250	3	3	3	1,5	1,5	1
300	3	3	3	1,5	1,5	1
350	3	3	2	1,5	1,5	1
400	3	3	2	1,5	1,5	1
450	3	3	2	1,5	1,5	1
500	3	3	2	1,5	1,5	1
550	2	2	2	1,5	1	1
600	2	2	2	1,5	1	1

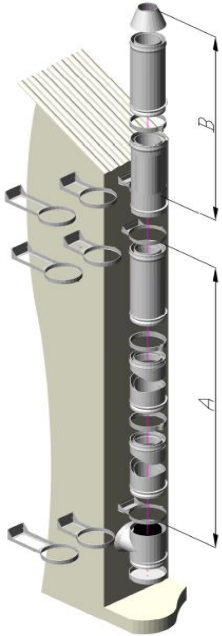
\*For higher lengths, please contact Dinak.



WIND LOAD RESISTANCE						
CONFIGURATION 1: WALL SUPPORTS 080 / SELF-SUPPORTING DEVICE FOR 3 FREESTANDING METERS 86T						
Max number of straight elements between supports (Size A)				Max. Length from last support. (m) (Size B)		
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model	GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
80	3	3		3	3	
100	3	3		3	3	
125	3	3		3	3	
150	3	3		3	3	
175	3	3		3	3	
200	3	3		3	3	
250	3	3		3	3	
300	3	3		3	3	
350	3	3		3	3	
400	3	3		3	3	
450	3	3		3	3	
500	3	3		3	3	
550	2	2		2	2	
600	2	2		2	2	

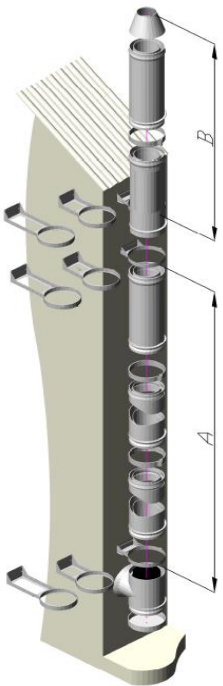
\*For higher lengths, please contact Dinak.

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**CONFIGURATION 2: SHORT CUTTABLE WALL SUPPORTS 835 / FLAT SHORT CUTTABLE WALL SUPPORTS 836**

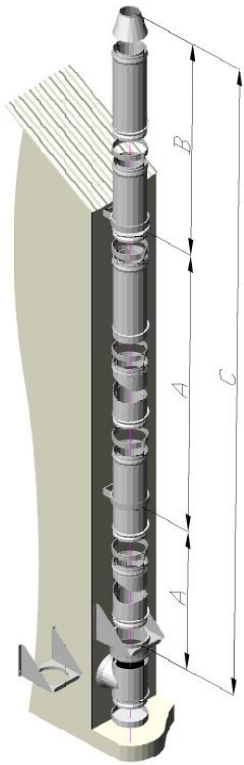
Distance to wall (835/836) : 100-250 mm						
Max number of straight elements between supports (Size A)			Max. Length from last support. (m) (Size B)			
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model	GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
80	3	3	3	1,5	1,5	1
100	3	3	3	1,5	1,5	1
130	3	3	3	1,5	1,5	1
150	3	3	3	1,5	1,5	1
180	3	3	3	1,5	1,5	1
200	3	3	3	1,5	1,5	1
250	3	3	3	1,5	1,5	1
300	3	3	3	1,5	1,5	1
350	3	3	2	1,5	1,5	1
400	3	3	2	1,5	1,5	1
450	3	3	2	1,5	1,5	1
500	3	3		1,5	1,5	
550	2	2		1	1	
600	2			1		



**CONFIGURATION 3: LONG CUTTABLE WALL SUPPORTS 845 / FLAT LONG CUTTABLE WALL SUPPORTS 846**

Distance to wall (845/846) : 250-430 mm						
Max number of straight elements between supports (Size A)			Max. Length from last support. (m) (Size B)			
Outer material	1.4301 / 304 1.4404 / 316L 1.4521 / 444			1.4301 / 304 1.4404 / 316L 1.4521 / 444		
Model	GE30+	GE50+	GE100+	GE30+	GE50+	GE100+
80	2	2	2	1,5	1,5	1
100	2	2	2	1,5	1,5	1
125	2	2	2	1,5	1,5	1
150	2	2	2	1,5	1,5	1
175	2	2	2	1,5	1,5	1
200	2	2	2	1,5	1,5	1
250	2	2	2	1,5	1,5	1
300	2	2	2	1,5	1,5	1
350	2	2	1	1,5	1,5	1
400	2	2	1	1,5	1,5	1
450	2	2	1	1,5	1,5	1
500	2	2		1,5	1,5	
550	1	1		1	1	
600	1			1		

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COMPRESSION STRENGTH OF THE SUPPORT							
MAX. LOAD (m)							
Adjustable base support closed 085/853 Size ( C )				Adjustable base support extended 085/853 Size (C)			
Outer material	1.4301 /304 1.4404 / 316L 1.4521 / 444			1.4301 /304 1.4404 / 316L 1.4521 / 444			
Model	GE30+	GE50+	GE100+	GE30+	GE50+	GE100+	
80	77	55	23	41	29	12	
100	66	48	22	35	26	11	
125	56	42	20	30	22	10	
150	48	37	18	26	20	9	
175	43	33	17	23	18	9	
200	38	30	15	20	16	8	
250	32	25	13	17	13	7	
300	27	27	14	14	18	10	
350	27	22	13	18	15	9	
400	24	20	11	16	13	8	
450	21	18	10	14	12	7	
500	19	16		13	11		
550	18	15		12	10		
600	16	14		11	9		

\*Please check maximum load in the compressive strength table, in case of installing a Tee section on top of our floor support